

CLAIMS

We claim:

1. Apparatus comprising:

an automated banking machine including a housing;

5 at least one input device in supporting connection with the housing and adapted to receive at least one input associated with each user of the machine;

a cash dispenser mechanism in supporting connection with the housing;

a deposit envelope holding container in supporting connection with the housing, the deposit envelope holding container adapted to hold a stack of empty deposit envelopes and having a floor support adapted to engage an end envelope bounding 10 a lower end of the stack;

at least one movable picker member adjacent the floor support and adapted to engage and move the end envelope from the stack in a first direction from the deposit envelope holding container;

5 at least one stripper member adapted to generally prevent envelopes in the stack other than the end envelope from moving from the deposit envelope holding container;

10 at least one transport adapted to move the end envelope that has moved in the first direction from the stack to a deposit opening that extends through the housing, wherein an envelope in the deposit opening is accessible from outside the housing.

15 2. The apparatus according to claim 1 wherein the floor support is movably mounted in supporting connection with the housing, wherein the floor support moves vertically relative to the at least one picker member, wherein in a first vertical position of the floor support the end envelope is disposed vertically above the at least one picker member, and in a second vertical position of the floor support the end envelope is engaged with the at least one picker member.

3. The apparatus according to claim 2 wherein the at least one picker member urges a lower side of the end envelope to move in the first direction, and wherein the at least one

stripper member comprises at least one resilient stripper surface engaging an upper side of the end envelope and resisting movement of the end envelope in the first direction.

4. The apparatus according to claim 1 wherein the at least one picker member urges a lower side of the end envelope to move in the first direction, and the at least one stripper member comprises at least one resilient stripper surface engaging an upper side of the end envelope and resisting movement of the envelope in the first direction.

5. The apparatus according to claim 3 and further comprising a biasing device, wherein the biasing device is operative to bias the resilient stripper surface downward.

6. The apparatus according to claim 3 wherein the at least one resilient stripper surface comprises a tapered surface angled to extend further downward with increasing distance from the stack in the first direction.

7. The apparatus according to claim 5 wherein the at least one resilient stripper surface comprises a tapered surface angled to extend further downward with increasing distance from the stack in the first direction.

15 8. The apparatus according to claim 3 wherein the at least one picker member comprises a plurality of moving members disposed transversely from one another relative to the

first direction, and wherein the at least one stripper surface is disposed intermediate of a pair of immediately adjacent moving members, whereby a transverse wave configuration is imparted to the end envelope engaged with the at least one stripper surface.

9. The apparatus according to claim 8 wherein at least one of the plurality of picker members comprises at least one cog portion, wherein the at least one cog portion when engaged with the end envelope applies added force to move the end envelope in the first direction.

10. The apparatus according to claim 9 wherein the plurality of picker members comprise upper flights of a plurality of continuous belts.

11. The apparatus according to claim 8 and further comprising a movable support, wherein the floor support is movably mounted in supporting connection with the housing through the movable support, and wherein the movable support is disposed in a second direction opposed of the first direction relative to the at least one stripper member.

12. The apparatus according to claim 8 and further comprising a movable push plate positionable in the empty envelope holding area, wherein the push plate is adapted to bias the stack toward the floor support.

13. The apparatus according to claim 12 wherein the push plate is movably mounted in supporting connection with the housing that is movable between a biasing position wherein the push plate extends in the empty envelope holding container and biases the stack downward, and an access position wherein the push plate extends out of the empty envelope holding container, 5 and wherein in the access position empty envelopes are enabled to be at least one of added to and removed from the empty envelope holding container.

14. The apparatus according to claim 13 wherein in moving between the biasing position and the access position, the push plate moves both vertically and rotationally relative to the housing.

10 15. The apparatus according to claim 8 and further comprising:

a deposit material accepting opening within the housing and intermediate of the stripper member and the at least one transport, wherein deposit material are enabled to be accepted in the deposit opening and moved by the at least one transport to the deposit material accepting opening.

15 16. The apparatus according to claim 15 and further comprising a deposit materials holding container mounted in supporting connection with the housing, wherein deposit materials

moved to the deposit envelope accepting opening by the at least one transport move into the deposit materials holding container.

17. The apparatus according to claim 1 and further comprising a deposit materials holding container mounted in supporting connection with the housing, wherein deposit materials are enabled to be accepted in the deposit opening and moved by the at least one transport move 5 into the deposit materials holding container.

18. The apparatus according to claim 15 and further comprising a movable gate and a drive in operative connection with the gate, wherein the drive is operative to move the gate selectively between a blocking position wherein the gate blocks the deposit material accepting 10 opening, and an open position wherein deposit materials are enabled to pass through the deposit material accepting opening.

19. The apparatus according to claim 18 wherein the floor support is operatively interconnected with the gate, wherein as the gate moves relative to the housing the floor support moves between the first vertical position and the second vertical position.

15 20. The apparatus according to claim 18 and further comprising at least one cam in operative connection with the floor surface, and wherein the floor surface moves responsive to the at least one cam.

21. The apparatus according to claim 20 and further comprising a plate member generally movable mounted horizontally in supporting connection with the housing, and wherein the plate member includes the gate in supporting connection therewith, and wherein the plate member includes at least one slot, and wherein the at least one cam moves responsive to engagement with the at least one slot.

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22. The apparatus according to claim 21 and further comprising at least one controller in the housing, and at least one printhead adapted to print indicia on deposit envelopes in the transport, and wherein the at least one controller is in operative connection with the at least one printhead and the drive.

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23. The apparatus according to claim 22 and further comprising a wiper movably mounted in supporting connection with the housing and adapted to engage the printhead, and wherein the wiper is operatively connected with the plate member, wherein the wiper moves with movement of the plate member.

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24. The apparatus according to claim 21 and further comprising at least one slide, and wherein the plate member is movably mounted in supporting connection with the housing through the at least one slide, and further comprising a deposit materials holding container movable between a deposit accepting position, wherein deposit materials are enabled to pass through the deposit material accepting opening into an interior area of the deposit materials

holding container, and a disposed position wherein the interior area is not accessible through the deposit material accepting opening, and further comprising an interlock mechanism in operative connection with the plate member and the deposit materials holding container, wherein movement of the plate member in supporting connection with the slide is restricted by the 5 interlock mechanism when the deposit materials holding container is in the deposit accepting position.

25. The apparatus according to claim 24 and further comprising at least one controller and at least one stepper motor in operative connection with the at least one controller, wherein the at least one stepper motor is in operative connection with at least one of the plurality of belts, 10 and wherein the controller is operative to cause the stepper motor to vibrate the at least one belt.

26. The apparatus according to claim 1 and further comprising at least one controller and at least one stepper motor in operative connection with the at least one controller, wherein the at least one stepper motor is in operative connection with the at least one picker member, and is operative responsive to the at least one controller to vibrate the at least one picker member.

15 27. Apparatus comprising:

an automated banking machine including the housing;

an input device in supporting connection with the housing that is operative to receive at least one input associated with each user of the machine;

a sheet dispenser mechanism in supporting connection with the housing and adapted to dispense sheets from the machine;

5 an envelope dispenser including an empty envelope supporting surface adapted to support a stack of empty envelopes;

at least one picker member movable adjacent to a supporting surface;

10 a drive operatively connected to the supporting surface, wherein the drive is operative to cause the supporting surface to move relative to the housing such that a stack bounding end envelope supported on the supporting surface is operatively engaged with the picker member and moves relative to the stack;

at least one transport operative to transport the end envelope after it is moved relative to the stack to a deposit opening in the housing, wherein the envelope is accessible from outside the housing.

28. The apparatus according to claim 27 and further comprising at least one stripper member adjacent the at least one picker member, wherein the at least one stripper member includes at least one angled strip surface, wherein the angled strip surface is operative to engage the end envelope and generally prevent envelopes other than the end envelope from moving from 5 the stack.

29. The apparatus according to claim 27 and further comprising a deposit envelope opening within the housing, and wherein the end envelope moves into engagement with the at least one transport above the deposit envelope opening, and wherein deposit envelopes input to the deposit opening to be deposited in the machine are moved into the housing by the at least one 10 transport and moved to the deposit envelope opening.